

#### Indiana Department of Environmental Management

We make Indiana a cleaner, healthier place to live.

Joseph E. Kernan Governor

Lori F. Kaplan Commissioner

Ocotober 10, 2003

100 North Senate Avenue P.O. Box 6015 Indianapolis, Indiana 46206-6015 (317) 232-8603 (800) 451-6027 www.in.gov/idem

TO: Interested Parties / Applicant

RE: Dave O'Mara Contractor, Inc. / F 029-16874-03326

Paul Dubenetzky FROM:

Chief, Permits Branch Office of Air Quality

### Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication. 100 North Senate Avenue. Government Center North, Room 1049, Indianapolis, IN 46204, within eighteen (18) calendar days of the mailing of this notice. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- the date the document is delivered to the Office of Environmental Adjudication (OEA); (1)
- the date of the postmark on the envelope containing the document, if the document is mailed to (2)OEA by U.S. mail; or
- The date on which the document is deposited with a private carrier, as shown by receipt issued by (3) the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3)identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- the issues, with particularity, proposed for considerations at any hearing; and (5)
- identification of the terms and conditions which, in the judgment of the person making the request, (6) would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

**Enclosures** FNPER.dot 9/16/03





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# FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) RENEWAL OFFICE OF AIR QUALITY

# Dave O'Mara Contractor, Inc. Portable

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B. Emergency Provisions.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F 029-16874-03326

Issued by:Original signed by Paul Dubenetzky

Paul Dubenetzky, Branch Chief

Office of Air Quality

Issuance Date: October 10, 2003

Expiration Date: October 10, 2008

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#### **SECTION A**

#### SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in Conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

#### A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a portable drum mix asphalt manufacturing source.

Authorized individual: Plant Manager Source Address: Portable

Mailing Address: P.O. Box 1139, North Vernon, Indiana, 47265

General Source Phone: (812) 346-4135

SIC Code: 2951

Source Location Status: Attainment for all criteria pollutants

Source Status: Federally Enforceable State Operating Permit (FESOP)

Minor Source, under PSD and Emission Offset Rules; Minor Source. Section 112 of the Clean Air Act

#### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This portable source consists of the following emission units and pollution control devices:

- (a) One (1) drum-mixer, constructed in 1994, equipped with a jet pulse baghouse for particulate control, exhausting to Stack #2, capacity: 247 tons of asphalt per hour.
- (b) One (1) natural gas-fired aggregate dryer burner, constructed in 1994, using No. 2 fuel oil as back-up fuel and No. 4 used oil for energy recovery as an alternative fuel, exhausting to Stack #2, heat input capacity: 82.7 million British thermal units per hour.
- (c) One (1) 4' x 10' screen, constructed in 1994.
- (d) Two (2) conveyors to transfer aggregate from the feed bins to the asphalt dryer, constructed in 1994.
- (e) Two (2) conveyors to transfer aggregate from the recycle bin to the asphalt dryer, constructed in 1994.
- (f) One (1) No. 2 fuel oil-fired direct fired heater, constructed 1994, heat input capacity: 2.5 million British thermal units per hour.
- (g) One (1) asphalt storage tank, constructed in 1994, capacity: 25,000 gallons.
- (h) One (1) fuel oil storage tank, constructed in 1994, capacity: 15,000 gallons.

#### A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This portable source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Unpaved roads with public access;
- (b) Four (4) virgin aggregate feeder bins;

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- (c) One (1) recycle bin; and
- (d) Three (3) 15,000 gallon asphalt cement storage bins.

#### A.4 FESOP Applicability [326 IAC 2-8-2]

This portable source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) to renew a Federally Enforceable State Operating Permit (FESOP).

#### A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either
  - (1) incorporated as originally stated,
  - (2) revised, or
  - (3) deleted

by this permit.

(b) All previous registrations and permits are superseded by this permit.

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#### **SECTION B**

#### **GENERAL CONDITIONS**

#### B.1 Permit No Defense [IC 13]

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

#### B.2 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2, and 326 IAC 2-7) shall prevail.

#### B.3 Permit Term [326 IAC 2-8-4(2)] [326 IAC 2-1.1-9.5]

This permit is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

#### B.4 Enforceability [326 IAC 2-8-6]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

#### B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

#### B.6 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

#### B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

#### B.8 Duty to Provide Information [326 IAC 2-8-4(5)(E)]

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1 When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

#### B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

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#### B.10 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

#### B.11 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management Compliance Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
  - (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ, may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

#### B.12 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs), including the following information on each facility:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

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- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

#### B.13 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:
  - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section) or,

Telephone No.: 317-233-5674 (ask for Compliance Section)

Facsimile No.: 317-233-5967

(5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management Compliance Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
  - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
  - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
    - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
    - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

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(h) Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

#### B.14 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

(a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

### B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
  - (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

#### B.16 Permit Renewal [326 IAC 2-8-3(h)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, IN 46206-6015

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
  - (1) A timely renewal application is one that is:
    - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
    - (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
  - (2) If IDEM, OAQ, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9] If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as needed to process the application.

#### B.17 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

Any such application shall be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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(c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

(d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

#### B.18 Operational Flexibility [326 IAC 2-8-15] [326 IAC 2-8-11.1]

- (a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:
  - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
  - (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
  - (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
  - (4) The Permittee notifies the:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J) 77 West Jackson Boulevard Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

(5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-8-15(b)(2), (c)(1), and (d).

- (b) Emission Trades [326 IAC 2-8-15(c)]
  The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (c) Alternative Operating Scenarios [326 IAC 2-8-15(d)]

  The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.

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B.19 Permit Revision Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

#### B.20 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2] [IC 13-30-3-1]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

#### B.21 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

#### B.22 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

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(b) Failure to pay may result in administrative enforcement action, or revocation of this permit.

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4320 (ask for OAQ, I/M & Billing Section), to determine the appropriate permit fee.

#### **SECTION C**

#### **SOURCE OPERATION CONDITIONS**

#### **Entire Source**

#### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

#### C.1 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

- (a) Pursuant to 326 IAC 2-8:
  - (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also satisfy the requirements of 326 IAC 2-3 (Emission Offset):
  - (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
  - (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.
- (b) Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period.
- (c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided the source's potential to emit does not exceed the above specified limits.
- (d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

#### C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

#### C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

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#### C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2.

#### C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

#### C.6 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on July 5, 1995. The plan consists of watering unpaved roads on an as-needed basis.

#### C.7 Operation of Equipment [326 IAC 2-8-5(a)(4)]

Except as otherwise provided by statute, rule or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

#### C.8 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

#### C.9 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
  - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
  - (2) If there is a change in the following:
    - (A) Asbestos removal or demolition start date:
    - (B) Removal or demolition contractor; or
    - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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Indiana Department of Environmental Management Asbestos Section, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) Procedures for Asbestos Emission Control
  The Permittee shall comply with the applicable emission control procedures in 326 IAC 1410-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on
- (f) Demolition and renovation

  The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR
- (g) Indiana Accredited Asbestos Inspector
  The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior
  to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly
  inspect the affected portion of the facility for the presence of asbestos. The requirement to
  use an Indiana Accredited Asbestos inspector is not federally enforceable.

#### Testing Requirements [326 IAC 2-8-4(3)]

61.145(a).

all facility components.

#### C.10 Performance Testing [326 IAC 3-6]

(a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

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#### Compliance Requirements [326 IAC 2-1.1-11]

#### C.11 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

#### Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

#### C.12 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

Unless otherwise specified in this permit, all monitoring and recordkeeping requirements not already legally required shall be implemented upon issuance of this permit. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

Unless otherwise specified in the approval for the new emissions unit, compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

#### C.13 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing performed required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63 or other approved methods as specified in this permit.

- C.14 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)] [326 IAC 2-8-5(1)]
  - (a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.
  - (b) Whenever a condition in this permit requires the measurement of a temperature and flow rate, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.
  - (c) The Preventive Maintenance Plan for the pH meter shall include calibration using known standards. The frequency of calibration shall be adjusted such that the typical error found at calibration is less than one pH point.
  - (d) The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

#### Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

#### C.15 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

(a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.

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(b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management Compliance Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

within ninety (90) days from the date of issuance of this permit.

#### C.16 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the source must comply with the applicable requirements of 40 CFR 68.

- C.17 Compliance Response Plan Preparation, Implementation, Records, and Reports [326 IAC 2-8-4] [326 IAC 2-8-5]
  - (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and is comprised of:
    - (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected time frame for taking reasonable response steps.
    - (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.
  - (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
    - (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or
    - (2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
    - (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten (10) days or more until the unit or device will be shut down, the Permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.
    - (4) Failure to take reasonable response steps shall be considered a deviation from the permit.
  - (c) The Permittee is not required to take any further response steps for any of the following reasons:

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- (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
- (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.
- (3) An automatic measurement was taken when the process was not operating.
- (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when, in accordance with Section D, response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-8-12 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

### C.18 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]

- (a) When the results of a stack test performed in conformance with Section C Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

#### Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

#### C.19 Emission Statement [326 IAC 2-6] [326 IAC 2-8-4(3)]

(a) The Permittee shall submit an emission statement certified pursuant to the requirements of 326 IAC 2-6. This statement must be received in accordance with the compliance schedule specified in 326 IAC 2-6-3 and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8). The statement must be submitted to:

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> Indiana Department of Environmental Management Technical Support and Modeling Section, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

The emission statement does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

#### C.20 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all recordkeeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

#### C.21 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years.

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#### **Portable Source Requirement**

#### C.22 Relocation of Portable Sources [326 IAC 2-14-4]

- (a) This permit is approved for operation in all areas of Indiana except in severe nonattainment areas for ozone (at the time of this permit's issuance these areas were Lake and Porter Counties). This determination is based on the requirements of Prevention of Significant Deterioration in 326 IAC 2-2, and Emission Offset requirements in 326 IAC 2-3. Prior to locating in any severe nonattainment area, the Permittee must submit a request and obtain a permit modification.
- (b) A request to relocate shall be submitted to IDEM, OAQ at least thirty (30) days prior to the intended date of relocation. This submittal shall include the following:
  - A list of governmental officials entitled to receive notice of application to relocate. IC 13-15-3-1
  - (2) A list of adjacent landowners that the Permittee will send written notice to not more than ten (10) days after submission of the request to relocate. IC 13-15-8

The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) A "Relocation Site Approval" letter shall be obtained prior to relocating.
- (d) The Permittee shall also notify the applicable local air pollution control agency when relocating to, or from, one the following:
  - (1) Madison County (Anderson Office of Air Management)
  - (2) City of Evansville plus four (4) miles beyond the corporate limits but not outside Vanderburgh County (Evansville EPA)
  - (3) City of Gary (Gary Department of Environmental Affairs)
  - (4) City of Hammond (Hammond Department of Environmental Management)
  - (5) Marion County (Indianapolis Office of Environmental Services)
  - (6) St. Joseph County (St. Joseph County Health Department)
  - (7) Vigo County (Vigo County Air Pollution Control)
- (e) A valid operation permit consists of this document and any subsequent "Relocation Site Approval" letter specifying the current location of the portable plant.

#### **Stratospheric Ozone Protection**

#### C.23 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

(a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156

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(b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

(c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

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#### **SECTION D.1**

#### **FACILITY OPERATION CONDITIONS**

#### Facility Description [326 IAC 2-8-4(10)]: Drum Mix Asphalt Plant

- (a) One (1) drum-mixer, constructed in 1994, equipped with a jet pulse baghouse for particulate control, exhausting to Stack #2, capacity: 247 tons of asphalt per hour.
- (b) One (1) natural gas-fired aggregate dryer burner, constructed in 1994, using No. 2 fuel oil as backup fuel and No. 4 used oil for energy recovery as an alternative fuel, exhausting to Stack #2, heat input capacity: 82.7 million British thermal units per hour.
- (c) One (1) 4' x 10' screen, constructed in 1994.
- (d) Two (2) conveyors to transfer aggregate from the feed bins to the asphalt dryer, constructed in 1994.
- (e) Two (2) conveyors to transfer aggregate from the recycle bin to the asphalt dryer, constructed in 1994.
- (f) One (1) No. 2 fuel oil-fired direct fired heater, constructed 1994, heat input capacity: 2.5 million British thermal units per hour.
- (g) One (1) asphalt storage tank, constructed in 1994, capacity: 25,000 gallons.
- (h) One (1) fuel oil storage tank, constructed in 1994, capacity: 15,000 gallons.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

#### Emission Limitations and Standards [326 IAC 2-8-4(1)]

#### D.1.1 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 2-8-4]

- (a) Pursuant to 326 IAC 2-8-4, the No. 2 fuel oil throughput to the one (1) direct fired heater and the dryer/burner shall be limited to less than 2,814,084.5 gallons per twelve (12) consecutive month period, equivalent to less than 99.9 tons of SO<sub>2</sub> per year.
- (b) For purposes of determining compliance based on SO<sub>2</sub> emissions, each 1,000 gallons of No. 4 used oil shall be equivalent to 853.5 gallons of No. 2 distillate fuel oil

Compliance the emission limit in paragraphs (a) and (b) of this condition shall limit the potential to emit  $SO_2$  from the entire source to less than one hundred (100) tons per year and render the requirements of 326 IAC 2-7 not applicable.

#### D.1.2 Sulfur Dioxide (SO<sub>2</sub>) and Nitrogen Oxides (NO<sub>X</sub>) [326 IAC 2-8-11.1(d)]

Pursuant to Condition D.1.2 of MPR 029-17649-03326, issued on July 2, 2003 the throughput of No. 4 used oil to the dryer/burner shall be limited to less than 825,000 gallons per twelve (12) consecutive month period with compliance determined at the end of each month equivalent to less than twenty-five (25) tons of  $SO_2$  and  $NO_X$  per year each.

#### D.1.3 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1-2]

(a) Pursuant to 326 IAC 7-1.1-2 (SO<sub>2</sub> Emissions Limitations), the SO<sub>2</sub> emissions from the dryer/burner and direct fired heater shall not exceed five tenths (0.5) pounds per million British thermal units heat input, each when combusting No. 2 fuel oil.

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- (b) Pursuant to 326 IAC 7-1.1-2 (SO<sub>2</sub> Emissions Limitations), the SO<sub>2</sub> from the dryer/burner shall not exceed one and six tenths (1.6) pounds per million British thermal units heat input when combusting No. 4 used oil.
- (c) Pursuant to 326 IAC 7-2-1, compliance with the limitations in paragraphs (a) and (b) of this condition shall be demonstrated on a calendar month average.

#### D.1.4 Particulate Matter Less Than Ten Microns (PM<sub>10</sub>) [326 IAC 2-8-4] [326 IAC 2-3]

Pursuant to 326 IAC 2-8-4,  $PM_{10}$  emissions from the aggregate dryer/mixer shall not exceed 13.14 pounds per hour, equivalent to 57.55 tons per year. Compliance with this ensure that the potential to emit  $PM_{10}$  from the entire source is less than one hundred (100) tons per year and shall render the requirements of 326 IAC 2-7 and 326 IAC 2-3 not applicable.

#### D.1.5 Particulate Matter (PM) [40 CFR 60.90] [326 IAC 12] [326 IAC 2-3]

Pursuant to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.90, Subpart I), no Permittee subject to the provisions of Subpart I shall discharge into the atmosphere from any affected facility any gases which:

- (a) Contain particulate matter in excess of 0.04 grains per dry standard cubic foot, equivalent to 6.82 pounds per hour at a flow rate of 31,134 acfm and a temperature of 325 degrees Fahrenheit.
- (b) Exhibit twenty (20%) percent opacity, or greater.

The emission limitations in paragraphs (a) and (b) render the requirements of 326 IAC 2-3 not applicable.

#### D.1.6 Particulate Matter (PM) [326 IAC 6-1-2]

Pursuant to 326 IAC 6-1-2(a) (Nonattainment Area Particulate Limitations), particulate matter (PM) emissions from the aggregate dryer/mixer shall be limited to 0.03 grains per dry standard cubic foot of exhaust air, equivalent to 5.12 pounds of PM per hour based on an exhaust rate of 31,134 acfm and an exhaust temperature of 325 degrees Fahrenheit.

#### D.1.7 Volatile Organic Compounds (VOC) [326 IAC 2-8-4] [326 IAC 8-5-2] [326 IAC 2-3]

- (a) The VOC solvent used as diluent in the liquid binder used in cold mix asphalt production from the plant shall not exceed 97.9 tons of VOC per twelve (12) consecutive month period with compliance determined at the end of each month. This shall be achieved by limiting the total VOC solvent of any one selected binder to not exceed the stated limit in paragraph (c) for that binder during the last twelve (12) months. When more than one binder is used, the formula in (c)(6) must be applied so that the total VOC emitted does not exceed 97.9 tons per twelve (12) consecutive month period.
- (b) Liquid binders used in the production of cold mix asphalt shall be defined as follows:
  - (1) <u>Cut back asphalt rapid cure</u>, containing a maximum of 25.3% of the liquid binder by weight of VOC solvent and 95% by weight of VOC solvent evaporating.
  - (2) <u>Cut back asphalt medium cure</u>, containing a maximum of 28.6% of the liquid binder by weight of VOC solvent and 70% by weight of VOC solvent evaporating.
  - (3) <u>Cut back asphalt slow cure</u>, containing a maximum of 20% of the liquid binder by weight of VOC solvent and 25% by weight of VOC solvent evaporating.
  - (4) Emulsified asphalt with solvent, containing a maximum of 15% of liquid binder by weight of VOC solvent and 46.4% by weight of the VOC solvent in the liquid blend

- evaporating. The percent oil distillate in emulsified asphalt with solvent liquid, as determined by ASTM, must be 7% or less of the total emulsion by volume
- (5) Other asphalt with solvent binder, containing a maximum 25.9% of the liquid binder of VOC solvent and 2.5% by weight of the VOC solvent evaporating
- (c) Pursuant to 326 IAC 2-8-4, the liquid binder used in cold mix asphalt production shall be limited as follows:
  - (1) Cutback asphalt rapid cure liquid binder usage shall be limited to less than 103.05 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month equivalent to less than 97.9 tons of VOC per year.
  - (2) Cutback asphalt medium cure liquid binder usage shall be limited to less than 139.86 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month equivalent to less than 97.9 tons of VOC per year.
  - (3) Cutback asphalt slow cure liquid binder usage shall be limited to less than 211 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month, equivalent to less than 97.9 tons of VOC per year.
  - (4) Emulsified asphalt with solvent liquid binder usage shall be limited to less than 102 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month, equivalent to less than 97.9 tons of VOC per year.
  - (5) Other asphalt with solvent liquid binder shall be limited to less than 3,916 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month, equivalent to less than 97.9 tons of VOC per year.
  - (6) The VOC solvent allotments in paragraphs (c)(1) through (c)(5) of this condition shall be adjusted when more than one type of binder is used per twelve (12) month consecutive period with compliance determined at the end of each month. In order to determine the tons of VOC emitted per each type of binder, use the following formula and divide the tons of VOC solvent used for each type of binder by the corresponding adjustment ratio listed in the table that follows.

<u>Tons of solvent contained in binder</u> = tons of VOC emitted Adjustment ratio

Type of binder	tons VOC solvent	adjustment ratio	tons VOC emitted
cutback asphalt rapid cure		1	
cutback asphalt medium cure		1.36	
cutback asphalt slow cure		3.8	
emulsified asphalt		2.04	
other asphalt		38	

The equivalent total tons of VOC of the combined liquid binders shall not exceed 97.9 tons per twelve (12) consecutive month period with compliance determined at the end of each month. Compliance with this limit shall ensure that the potential to emit VOC from the entire source is less than one hundred (100) tons per year and shall render the requirements of 326 IAC 2-7 (Part 70 Rules) and 326 IAC 2-3 (Emission Offset) not applicable.

- (d) Pursuant to 326 IAC 8-5-2, the Permittee shall not allow the use of asphalt emulsion containing more than seven percent (7%) oil distillate by volume of emulsion, except as used for the following purposes:
  - (1) penetrating prime coating;
  - (2) stockpile storage mix; and
  - (3) application during the months of November, December, January, February, and March.

#### D.1.8 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for drum mixer/dryer burner and any control devices.

#### **Compliance Determination Requirements**

D.1.9 Testing Requirements [326 IAC 2-8-5(1), (4)] [326 IAC 2-1.1-11]

The Permittee shall perform PM and  $PM_{10}$  testing in order to demonstrate compliance with Conditions D.1.4 through D.1.6, utilizing methods as approved by the Commissioner. These tests shall be conducted prior to August 18, 2004, and shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration.  $PM_{10}$  includes filterable and condensible  $PM_{10}$ . Testing shall be conducted in accordance with Section C- Performance Testing.

#### D.1.10 Sulfur Dioxide Emissions and Sulfur Content

Compliance shall be determined utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million British thermal units heat input for No. 2 fuel oil and one and six tenths (1.6) pounds per million British thermal units heat input for No. 4 used oil by:
  - Providing vendor analysis of fuel delivered, if accompanied by a vendor certification;
     or
  - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
    - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
    - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the 82.7 million British thermal units per hour burner, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

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Dave O'Mara Contractor, Inc. Portable Permit Reviewer: MSS/MES

#### D.1.11 Particulate Matter (PM) and Particulate Matter Less Than Ten Microns (PM<sub>10</sub>)

In order to comply with Conditions D.1.4 through D.1.6, the baghouse for PM and PM<sub>10</sub> control shall be in operation and control emissions from the drum mixer/dryer at all times that the drum mixer/dryer is in operation.

#### Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

#### D.1.12 Visible Emissions Notations

- (a) Visible emission notations of the conveyers, material transfer points and the drum mixer/ burner stack exhaust shall be performed once per shift during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C Compliance Response Plan -Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

#### D.1.13 Parametric Monitoring

- (a) The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the mixer/dryer, at least once per shift when the drying/mixing process is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C Compliance Response Plan Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.
- (b) The inlet temperature to the baghouse shall be maintained within a range of 200 400 degrees Fahrenheit (°F) to prevent overheating of the bags and to prevent low temperatures from mudding up the bags. The thermocouple at the inlet has a temperature switch which automatically shuts the burner off if the high end range is exceeded. In the event that bag failure has occurred due to rupture, melting, etc., corrective action shall be taken. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when the inlet temperature reading is outside of the above mentioned range for any one reading. The baghouse shall shutdown for visual inspection within 24 hours and bags shall be replaced as needed.
- (c) The instrument used for determining the pressure shall comply with Section C Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

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Dave O'Mara Contractor, Inc. Portable Permit Reviewer: MSS/MES

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#### D.1.14 Baghouse Inspections

An inspection shall be performed each calender quarter of all bags controlling the dryer/burner operation. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

#### D.1.15 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C Compliance Response Plan Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit. If operations continue after bag failure is observed and it will be ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.
- (b) For single compartment baghouses, the material feeding system for the dryer shall cease operation immediately. The associated controlled processes shall be shut down when the material in production has cleared the system. The dryer shall not be operated until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B Emergency Provisions).

#### Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

#### D.1.16 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.1 through D.1.3 and D.1.10, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken daily and shall be complete and sufficient to establish compliance with the SO<sub>2</sub> and NO<sub>X</sub> emission limits established in Conditions D.1.1 through D.1.3 and D.1.10.
  - (1) Actual monthly No.2 fuel oil and No. 4 used oil usage of each and equivalent sulfur dioxide and nitrogen oxide emissions;
  - (2) A certification, signed by the Permittee, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and

If the fuel supplier certification is used to demonstrate compliance the following, as a minimum, shall be maintained:

- (3) The name of the fuel supplier; and
- (4) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.
- (b) To document compliance with Condition D.1.7, Volatile Organic Compounds, VOC records shall document VOC usage as follows:

- (1) Amount and type of liquid binder used in the production of cold mix asphalt each day.
- Type and VOC, solvent content by weight of the liquid binder used in the production of cold mix asphalt each day.
- (3) Amount of VOC, solvent used in the production of cold mix asphalt each day.
- (4) Records may include: delivery tickets, manufacturer's data, material safety data sheets (MSDS), and other documents necessary to verify the type and amount used. Test results of ASTM tests for asphalt cutback and asphalt emulsion may be used to document volatilization.
- (c) To document compliance with Condition D.1.12, the Permittee shall maintain records of visible emission notations of the conveyors, transfer points, an the dryer/burner stack exhaust Stack 2 once per shift.
- (d) To document compliance with Condition D.1.13, the Permittee shall maintain once per shift records of the total static pressure drop during normal operation when venting to the atmosphere.
- (e) To document compliance with Condition D.1.14, the Permittee shall maintain records of the results of the inspections required under Condition D.1.14.
- (f) All records shall be maintained in accordance with Section C General Record Keeping Requirements, of this permit.

#### D.1.17 Record Keeping Requirements [326 IAC 12] [40 CFR 60.110b, Subpart Kb]

The one (1) asphalt storage tank with a capacity 25,000 gallons and the one (1) No. 2 distillate fuel oil storage tank with a capacity of 15,000 gallons, shall comply with the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb). These tanks are subject to only 40 CFR Part 60.116b, paragraphs (a) and (b) which requires the Permittee to maintain accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Records shall be kept for the life of the storage tanks.

#### D.1.18 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.1, D.1.2 and D.1.7 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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Dave O'Mara Contractor, Inc. Portable

Permit Reviewer: MSS/MES

## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

### FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

This certification shall be included when submitting monitoring, testing reports/results

Source Name: Dave O'Mara Contractor, Inc.

Source Address: (Portable Source)

Mailing Address: P.O. Box 1139, North Vernon, Indiana, 47265

FESOP No.: F 029-16874-03326

	or other documents as required by this permit.	
	Please check what document is being certified:	
9	Annual Compliance Certification Letter	
9	Test Result (specify)	
9	Report (specify)	
9	Notification (specify)	
9	Affidavit (specify)	
9	Other (specify)	
	ertify that, based on information and belief formed after reasonable inquiry, the statements and ormation in the document are true, accurate, and complete.	
Sig	nature:	
Printed Name:		
Title/Position:		
Pho	one:	
Dat	e:	

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Dave O'Mara Contractor, Inc. Portable Permit Reviewer: MSS/MES

## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

COMPLIANCE BRANCH 100 North Senate Avenue P.O. Box 6015 Indianapolis, Indiana 46206-6015 Phone: 317-233-5674 Fax: 317-233-5967

### FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) EMERGENCY OCCURRENCE REPORT

Source Name: Dave O'Mara Contractor, Inc.

Source Address: (Portable Source)

Mailing Address: P.O. Box 1139, North Vernon, Indiana, 47265

FESOP No.: F 029-16874-03326

#### This form consists of 2 pages

Page 1 of 2

9	emergency as defined in 326 IAC 2-7-1(12)
7	emergency as defined in 326 IAC 2-7-1

- The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
- The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

f any of the following are not applicable, mark N/A	Page 2 of 2
Date/Time Emergency started:	
Date/Time Emergency was corrected:	
Was the facility being properly operated at the time of the emergency? Y N Describe:	
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:	
Estimated amount of pollutant(s) emitted during emergency:	
Describe the steps taken to mitigate the problem:	
Describe the corrective actions/response steps taken:	
Describe the measures taken to minimize emissions:	
If applicable, describe the reasons why continued operation of the facilities are necessary to imminent injury to persons, severe damage to equipment, substantial loss of capital investoral loss of product or raw materials of substantial economic value:	
Form Completed by:	
Title / Position:	
Date:	
Phone:	

A certification is not required for this report.

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Dave O'Mara Contractor, Inc. Portable

Permit Reviewer: MSS/MES

#### INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT **OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION**

	FESOF	P Quarterly Report	
Source Name: Source Address: (Portable Source) Mailing Address: FESOP No.: Facilities: Parameter: Limit:  Dave O'Mara Contractor, Inc. (Portable Source) P.O. Box 1139, North Vernon, Indiana, 47265 F029-16874-03326 Dryer/Burner and Direct Fired Heater No.2 Fuel Oil Usage 2,814,084.5 gallons per twelve (12) consecutive month period with compliance determined at the end of each month, where 1,000 gallons of No. 4 used oil sha equivalent to 853.5 gallons of No. 2 fuel oil, equivalent to 99.9 tons of SO <sub>2</sub> per years.  YEAR:			
	,		
Month	No. 2 Fuel Oil Usage or Equivalent Burned (gallons)	No. 2 Fuel Oil Usage or Equivalent Burned (gallons)	No. 2 Fuel Oil Usage or Equivalent Burned (gallons)
	This Month	Previous 11 Months	12 Month Total
9 No deviation occurred in this quarter.		this quarter.	
9 Deviation/s occurred in this quarter. Deviation has been reported on:  Submitted by:  Title / Position:			
Si	gnature:		
Da	ate:		
Pł	none:		

Attach a signed certification to complete this report.

Dave O'Mara Contractor, Inc.
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Portable
Potable
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Permit Reviewer: MSS/MES

Phone:

# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

	FESOP	Quarterly Report					
Source Name: Source Address: Mailing Address: FESOP No.: Facility: Parameter: Limit:	ce Address: (Portable Source) lig Address: P.O. Box 1139, North Vernon, Indiana, 47265 P.O. Box 1139, North Vernon, Indiana, 47265 light Process Proce						
	YEAR:						
Month	No. 4 Used Oil Usage (gallons)	No. 4 Used Oil Usage (gallons)	No. 4 Used Oil Usage (gallons)				
	This Month	Previous 11 Months	12 Month Total				
9	No deviation occurred in	this quarter.					
9	9 Deviation/s occurred in this quarter. Deviation has been reported on:						
Subi	mitted by:						
Title	/ Position:						
Sign	ature:						
Date	Date:						

Attach a signed certification to complete this report.

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Dave O'Mara Contractor, Inc. Portable

Permit Reviewer: MSS/MES

# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

#### **FESOP Quarterly Report**

Use this fo	rm on	ly if only one (1	) type of bir	nder is used, or no binder	is used in th	ne past 12 months			
Source Name: Source Address: Mailing Address: FESOP No.: Facility: Parameter: Limits:		(Portable Source P.O. Box 1139, F 029-16874-03 Asphalt Plant VOC Solvent Usend of each mc Cutback asphal Cutback asphal Cutback asphal Emulsified asphalt wasphalt wa	O'Mara Contractor, Inc. ble Source) 80x 1139, North Vernon, Indiana, 47265 -16874-03326 alt Plant Solvent Usage twelve (12) consecutive month period, with compliance determined at the						
			YEAR:						
		TYP	E of Binder:	: <u> </u>					
Month		VOC Solven (tons		VOC Solvent Usage (tons)	V	OC Solvent Usage (tons)			
		This Mo	nth	Previous 11 Months		12 Month Total			
	9	No deviation oc		•					
	9	Deviation/s occ Deviation has b							
	Subm	nitted by:							
	Title /	Position:							
	Signa	ature:							
	Date:								
	Phon	e:							
		Atta	ch a signed	certification to complete thi	s report.				

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Dave O'Mara Contractor, Inc. Portable

Permit Reviewer: MSS/MES

## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

#### **FESOP Quarterly Report**

#### Use this form only if more than one (1) type of binder is used in the past 12 months

Source Name: Dave O'Ma	ara Contractor, Inc.
------------------------	----------------------

Source Address: (Portable Source)

Mailing Address: P.O. Box 1139, North Vernon, Indiana, 47265

FESOP No.: F 029-16874-03326 Facility: Asphalt Plant

Parameter: VOC Emissions based on solvent usage

Limit:: VOC Solvent usage equivalent to less than 97.9 tons per year

Tons of solvent contained in binder = tons of VOC emitted

Adjustment ratio

Year:

Month	Type of Liquid binder	Solvent Usage This Month (tons)	Adjust- ment Ratio	VOC emitted from each binder This Month (tons)	VOC emitted from all binders This Month (tons)	VOC emitted Previous 11 Months (tons)	VOC emitted 12 Month Total (tons)
	Cutback asphalt rapid cure		1				
	Cutback asphalt medium cure		1.36				
	Cutback asphalt slow cure		3.8				
	Emulsified asphalt		2.04				
	Other asphalt		38				
	Cutback asphalt rapid cure		1				
	Cutback asphalt medium cure		1.36				
	Cutback asphalt slow cure		3.8				
	Emulsified asphalt		2.04				
	Other asphalt		38				
	Cutback asphalt rapid cure		1				
	Cutback asphalt medium cure		1.36				
	Cutback asphalt slow cure		3.8				
	Emulsified asphalt		2.04				
	Other asphalt		38				

s quarter.

9	Deviation/s occurred in this quarter.
	Deviation has been reported on:

Submitted by:	
Title / Position:	
Signature:	
Date:	
Phone:	

Attach a signed certification to complete this report.

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Dave O'Mara Contractor, Inc. Portable

Permit Reviewer: MSS/MES

# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

### FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Source Address:		ra Contractor, Inc.		
Mailing Address: FESOP No.:		139, Ńorth Vernon	, Indiana, 47265	
	Months:	to	Year:	
				Page 1 of 2
the date(s) of e be reported. De according to the report. Addition	ach deviation, the eviations that are e schedule state nal pages may be	e probable cause required to be rep d in the applicable	of the deviation, and the requirement and do not use requirement and do not usery. If no deviations occurs	tion from the requirements, esponse steps taken must uirement shall be reported need to be included in this urred, please specify in the
9 NO DEVIATION	ONS OCCURRE	D THIS REPORT	NG PERIOD.	
9 THE FOLLO	WING DEVIATIO	NS OCCURRED	THIS REPORTING PERIC	)D
Permit Require	ement (specify p	ermit condition #)		
Date of Deviat	ion:		Duration of Deviation:	
Number of Dev	viations:			
Probable Caus	se of Deviation:			
Response Ste	ps Taken:			
Permit Require	ement (specify p	ermit condition #)		
Date of Deviat	ion:		Duration of Deviation:	
Number of Dev	viations:			
Probable Caus	se of Deviation:			
Response Ste	ps Taken:			

Page 2 of 2

Permit Requirement (specify permit condition #)								
Date of Deviation	<b>1</b> :		Duration of Deviation:					
Number of Deviations:								
Probable Cause	Probable Cause of Deviation:							
Response Steps	Response Steps Taken:							
Permit Requirement (specify permit condition #)								
Date of Deviatio	n:		<b>Duration of Deviation:</b>					
Number of Devia	tions:							
Probable Cause	of Devia	ation:						
Response Steps	Taken:							
Permit Requirem	ent (spe	ecify permit condition #)						
Date of Deviation: Duration of Deviation:								
Number of Devia	tions:							
Probable Cause	of Devia	ation:						
Response Steps	Taken:							
	9	No deviation occurred in	this quarter.					
9 Deviation/s occurred in this quarter. Deviation has been reported on:								
	Form C	Completed By:						
	Title/Po	osition:						
	Date:							
	Phone:							

Attach a signed certification to complete this report.

## Indiana Department of Environmental Management Office of Air Quality

Addendum to the Technical Support Document for Federally Enforceable State Operating Permit (FESOP) Renewal

Source Name: Dave O'Mara Contractor, Inc.

Source Location: Portable (Currently Located at 10585 Morgan's Branch Road,

Aurora, Indiana 47001)

County: Dearborn

FESOP: F 029-16874-03326

SIC Code: 2951

Permit Reviewer: Michael S. Schaffer

On August 12, 2003, the Office of Air Quality (OAQ) had a notice published in the Dearborn County Register, Lawrenceburg, Indiana, stating that Dave O'Mara Contractor, Inc. had applied for a Federally Enforceable State Operating Permit (FESOP) renewal to continue to operate drum mix asphalt plant. The notice also stated that OAQ proposed to issue a FESOP renewal for this operation and provided information on how the public could review the proposed FESOP renewal and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this FESOP renewal should be issued as proposed.

Upon further review, the OAQ has decided to make the following changes to the FESOP renewal. The permit language is changed to read as follows (deleted language appears as strikeouts, new language is **bolded**):

#### Change 1:

Condition B.10 will be removed from the permit, all subsequent B Conditions will be renumbered, and will be replaced with language on the title page of the permit as follows:

#### B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:
  - (1) Enforcement action;
  - (2) Permit termination, revocation and reissuance, or modification; and
  - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

Dave O'Mara Contractor, Inc.

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Portable

F 029-16874-03326

Permit Reviewer: MSS/MES

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

#### Change 2:

The notification requirements in Conditions C.17(b)(3) and D.1.15(a) have been modified to apply only to situations where the emissions unit will continue to operate for an extended time while the compliance monitoring parameter is out of range. It is intended to provide IDEM, OAQ an opportunity to assess the situation and determine whether any additional actions are necessary to demonstrate compliance with applicable requirements.

- C.17 Compliance Response Plan Preparation, Implementation, Records, and Reports [326 IAC 2-8-4] [326 IAC 2-8-5]
  - (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
    - (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten (10) days or more until the unit or device will be shut down, the Permittee shall promptly notify the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.

#### D.1.15 Broken or Failed Bag Detection

In the event that bag failure has been observed:

For multi-compartment units, the affected compartments will be shut down immediately until (a) the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B - Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan. response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit. If operations continue after bag failure is observed and it will be ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

## Indiana Department of Environmental Management Office of Air Quality

## Technical Support Document (TSD) for a Federally Enforceable State Operating Permit (FESOP) Renewal

#### **Source Background and Description**

Source Name: Dave O'Mara Contractor, Inc.

Source Location: Portable (Currently Located at 10585 Morgan's Branch Road,

Aurora, Indiana 47001)

County: Dearborn SIC Code: 2951

Operation Permit No.: F 029-16874-03326
Permit Reviewer: Michael S. Schaffer

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from Dave O'Mara Contractor, Inc., relating to the operation of a portable drum mix asphalt manufacturing source. Dave O'Mara Contractor, Inc., was issued FESOP 137-9848-03326, on August 12, 1998.

#### **Permitted Emission Units and Pollution Control Equipment**

The source consists of the following permitted emission units and pollution control devices:

- (a) One (1) drum-mixer, constructed in 1994, equipped with a jet pulse baghouse for particulate control, exhausting to Stack #2, capacity: 247 tons of asphalt per hour.
- (b) One (1) natural gas-fired aggregate dryer burner, constructed in 1994, using No. 2 fuel oil as back-up fuel and No. 4 used oil for energy recovery as an alternative fuel, exhausting to Stack #2, heat input capacity: 82.7 million British thermal units per hour.
- (c) One (1) 4' x 10' screen, constructed in 1994.
- (d) Two (2) conveyors to transfer aggregate from the feed bins to the asphalt dryer, constructed in 1994.
- (e) Two (2) conveyors to transfer aggregate from the recycle bin to the asphalt dryer, constructed in 1994.
- (f) One (1) No. 2 fuel oil-fired direct fired heater, constructed 1994, heat input capacity: 2.5 million British thermal units per hour.
- (g) One (1) asphalt storage tank, constructed in 1994, capacity: 25,000 gallons.
- (h) One (1) fuel oil storage tank, constructed in 1994, capacity: 15,000 gallons.

Dave O'Mara Contractor, Inc.

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Portable

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Permit Reviewer: MSS/MES

#### **Unpermitted Emission Units and Pollution Control Equipment**

There are no unpermitted facilities operating at this source during this review process.

#### **Insignificant Activities**

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Unpaved roads with public access;
- (b) Four (4) virgin aggregate feeder bins;
- (c) One (1) recycle bin; and
- (d) Three (3) 15,000 gallon asphalt cement storage bins.

#### **Existing Approvals**

The source has been operating under the following previous approvals including:

- (a) FESOP 137-9848-03326, issued on August 12, 1998; and
- (b) MPR 029-17649-03326, issued on July 2, 2003.

All terms and conditions from previous approvals issued pursuant to the permitting programs approved into the State Implementation Plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous approvals are superseded by this permit.

The following terms and conditions from previous approvals have been revised in this permit:

MPR 029-17649-03326, issued on July 2, 2003

(a) Condition D.1.1(a) and (d) - Sulfur Dioxide (SO<sub>2</sub>): Pursuant to 326 IAC 2-8-4, the input of #2 distillate fuel oil to the aggregate dryer burner shall be limited to 2,633,810 gallons per twelve (12) consecutive month period with compliance determined at the end of each month. These fuel usage and content limitations were taken voluntarily by the company and are equivalent to sulfur dioxide emissions of 93.5 tons per twelve (12) consecutive month period with compliance determined at the end of each month. Due to these voluntary limits, 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), 326 IAC 2-3 (Emission Offset), and the Part 70 Permit Program (326 IAC 2-7) rules do not apply.

Reason not incorporated: The FESOP limit for the combustion of No. 2 fuel oil will include emissions from the direct fired heater equivalent to an entire source  $SO_2$  emission limit. Therefore, the combustion of No. 2 fuel oil from the entire source will be limited to less than 2,814,084.5 gallons per twelve consecutive month period with compliance determined at the end of each month equivalent less than 99.9 tons of  $SO_2$  per year.

(b) Condition D.1.4 - Particulate Matter Less Than 10 Microns (PM<sub>10</sub>): Pursuant to 326 IAC 2-8-4, emissions of particulate matter 10 microns or less in diameter (PM10) from the aggregate dryer/mixer shall not exceed 15.30 pounds per hour, including both filterable and condensible fractions. Compliance with this limit will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.

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Reason not incorporated: Pursuant to 326 IAC 2-8-4, the  $PM_{10}$  emission limit has been revised in this FESOP Renewal to ensure that the potential to emit  $PM_{10}$  from the entire source is less than one hundred (100) tons per year.  $PM_{10}$  emissions from the Dryer Mixer/Burner will not exceed 13.14 pounds per hour, equivalent to 57.55 tons of  $PM_{10}$  per year. Compliance with this will render the requirements of 326 IAC 2-7 not applicable.

#### **Enforcement Issue**

- (a) IDEM is aware that the source did not apply for a FESOP Renewal in a timely manner.
- (b) IDEM is reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the operation permit rules.

#### Recommendation

The staff recommends to the Commissioner that the FESOP Renewal be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete FESOP Renewal application for the purposes of this review was received on March 3, 2003.

#### **Emission Calculations**

See Pages 1 through 13 of 13 in Appendix A of this document for detailed emissions calculations.

#### **Unrestricted Potential Emissions**

This table reflects the unrestricted potential emissions of the source, excluding the emission limits that were contained in the previous FESOP.

Pollutant	Unrestricted Potential Emissions (tons/year)
PM	30,706
PM <sub>10</sub>	7,120
SO <sub>2</sub>	189
VOC	Greater Than 100
СО	30.4
NO <sub>x</sub>	13.3

Note: For the purpose of determining Title V applicability for particulates, PM<sub>10</sub>, not PM, is the regulated pollutant in consideration.

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HAPs	Unrestricted Potential Emissions (tons/year)
TOTAL HAPs *	8.22

\* HAPs include benzene, ethyl benzene, formaldehyde, methyl chloroform, naphthalene, toluene, xylene; arsenic, cadmium, chromium, manganese, mercury and nickel compounds. No single HAP exceeds a potential to emit of greater than ten (10) tons per year.

The potential emissions of  $PM_{10}$ , VOC and  $SO_2$  is equal to or greater than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

#### **Potential to Emit After Issuance**

The source, issued a FESOP on August 12, 1998, has opted to remain a FESOP source, rather than apply for a Part 70 Operating Permit. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable only after issuance of the Federally Enforceable State Operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit. Since the source has not constructed any new emission units, the source's potential to emit is based on the emission units included in the original FESOP (F 137-9848-03326; issued on August 12, 1998).

	Potential to Emit After Issuance (tons/year)						
Process/emission unit	PM	PM <sub>10</sub>	SO <sub>2</sub>	VOC	СО	NO <sub>x</sub>	HAPs
Drum Dryer/Burner and Direct Fired Heater (Worst Case)	22.4	57.55	Less than 99.9	1.99	30.4	53.3	9.99
Conveying/Handling	2.99	0.299	-	-	-	-	-
Screening	34.06	3.406	-	-	-	-	-
Storage Piles	0.081	0.029	-	-	-	-	-
Unpaved Roads	184.8	38.6	-	-	-	-	-
Cold Mix Production	-	-	-	Less Than 97.9			
Insignificant Activities	-	1	-	ı	-	ı	-
Total PTE After Issuance	244.3 including fugitives	99.9	Less than 99.9	Less Than 100	30.4	53.3	Single less than 10 Total less than 25

The PM value for the aggregate dryer/mixer represents the allowable emissions pursuant to 326 IAC 6-1-2. The PM<sub>10</sub> value for the aggregate dryer/mixer is equivalent to 13.14 pounds per hour which represents the allowable PM<sub>10</sub> emission rate for the aggregate dryer/mixer pursuant to 326 IAC 2-8-4. In addition, Dave O'Mara Contractor, Inc., has accepted a total No. 2 fuel oil throughput limit to

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the one (1) direct fired heater and the dryer/burner of less than 2,814,084.5 gallons per twelve (12) consecutive month period, which is equivalent to an  $SO_2$  emission limit of less than 99.9 tons per year.

Dave O'Mara Contractor, Inc. has elected to be permitted to use cutback asphalt at this portable source. Liquid binders used in the production of cold mix asphalt shall be defined as follows:

- (a) <u>Cut back asphalt rapid cure</u>, containing a maximum of 25.3% of the liquid binder by weight of VOC (solvent) and 95% by weight of VOC (solvent) evaporating.
- (b) <u>Cut back asphalt medium cure</u>, containing a maximum of 28.6% of the liquid binder by weight of VOC (solvent) and 70% by weight of VOC (solvent) evaporating.
- (c) <u>Cut back asphalt slow cure</u>, containing a maximum of 20% of the liquid binder by weight of VOC (solvent) and 25% by weight of VOC (solvent) evaporating.
- (d) Emulsified asphalt with solvent, containing a maximum of 15% of liquid binder by weight of VOC solvent and 46.4% by weight of the VOC (solvent) in the liquid blend evaporating. The percent oil distillate in emulsified asphalt with solvent liquid, as determined by ASTM, must be 7% or less of the total emulsion by volume
- (e) Other asphalt with solvent binder, containing a maximum 25.9% of the liquid binder of VOC (solvent) and 2.5% by weight of the VOC (solvent) evaporating

Pursuant to 326 IAC 2-8-4, in order to limit the potential to emit VOC from the entire source to less than one (100) tons per year, the liquid binder used in cold mix asphalt production shall be limited as follows:

- (a) Cutback asphalt rapid cure liquid binder usage will be limited to less than 103.05 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month equivalent to less than 97.9 tons of VOC per year.
- (b) Cutback asphalt medium cure liquid binder usage will be limited to less than 139.86 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month equivalent to less than 97.9 tons of VOC per year.
- (c) Cutback asphalt slow cure liquid binder usage will be limited to less than 211 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month, equivalent to less than 97.9 tons of VOC per year.
- (d) Emulsified asphalt with solvent liquid binder usage will be limited to less than 102 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month, equivalent to less than 97.9 tons of VOC per year.
- (e) Other asphalt with solvent liquid binder will be limited to less than 3,916 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month, equivalent to less than 97.9 tons of VOC per year.
- (f) The VOC solvent allotments in paragraphs (a) through (e) will be adjusted when more than one type of binder is used per twelve (12) month consecutive period with compliance determined at the end of each month. In order to determine the tons of VOC emitted per each type of binder, use the following formula and divide the tons of VOC solvent used for each type of binder by the corresponding adjustment ratio listed in the table that follows.

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### <u>Tons of solvent contained in binder</u> = tons of VOC emitted Adjustment ratio

Type of binder	tons VOC solvent	adjustment ratio	tons VOC emitted
cutback asphalt rapid cure		1	
cutback asphalt medium cure		1.36	
cutback asphalt slow cure		3.8	
emulsified asphalt		2.04	
other asphalt		38	

#### **Portable Source**

(a) Location

This is a portable source and its current location is 10585 Morgan's Branch Road, Aurora, Indiana 47001.

(b) PSD and Emission Offset Requirements
The emissions for this portable source were reviewed under the requirements of the Prevention of Significant Deterioration (PSD), 326 IAC 2-2, and Emission Offset, 326 IAC 2-3.

(c) Fugitive Emissions

Although this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, there are applicable New Source Performance Standards that were in effect on August 7, 1980. Therefore, the fugitive emissions are counted toward determination of PSD and Emission Offset applicability.

Since unpaved roads are not an affected facility of the applicable NSPS (40 CFR 60.90, Subpart I), fugitive PM emissions resulting from unpaved roads are not counted toward determination of PSD and Emission Offset applicability.

#### **Federal Rule Applicability**

- (a) This asphalt plant is still subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.90, Subpart I), because it was constructed after June 11, 1973. No owner or operator subject to the provisions of Subpart I shall discharge into the atmosphere from any affected facility any gases which:
  - (1) Contain particulate matter in excess of 0.04 grains per dry standard cubic foot, equivalent to 6.82 pounds per hour at a flow rate of 31,134 acfm and a temperature of 325 degrees Fahrenheit.
  - (2) Exhibit twenty percent (20%) opacity, or greater.

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(b) The one (1) asphalt storage tanks with a capacity of 25,000 gallons is still subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb) since this tank was constructed after July 23, 1984. Since the materials stored in this tank have a vapor pressure less than 15.0 kiloPascals, this tank is only subject to 40 CFR Part 60.116b, paragraphs (a) and (b), which require record keeping.

- (c) The one (1) No. 2 distillate fuel oil storage tank with a capacity of 15,000 gallons is still subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb) since the tank was constructed after July 23, 1984. Since the tank have a capacity of less than seventy-five (75) cubic meters, this tank is only subject to 40 CFR Part 60.116b, paragraphs (a) and (b), which require record keeping.
- (d) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14, 326 IAC 20, 40 CFR Part 61 and 40 CFR Part 63) applicable to this source.
- (e) This source burns No. 4 used oil for energy recovery in accordance with the requirements of 40 CFR 279 (Standards for Used Oil Burners) as a result of the proposed revision. Manufacturer's specifications show that the No. 4 used oil is used as alternative fuel in the aggregate dryer are within the allowable levels of the constituents and properties specified in Table 1 of 40 CFR 279.11. Compliance with the allowable levels of constituents and properties stated in 329 IAC 13-3-2 (Used Oil Specifications) verifies that the source is burning No.4 used oil within the allowable levels specified in 40 CFR 279.11. See the state rule applicability individual facilities section of this document for a detailed analysis.

#### State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-3 (Emission Offset)

This source was constructed after August 7, 1977. This drum mix asphalt manufacturing source is not 1 of the 28 major PSD source categories pursuant to 326 IAC 2-2 and this portable source is prohibited from locating in severe non-attainment counties (specifically Lake and Porter Counties). The limited potential to emit of  $PM_{10}$ , VOC and  $SO_2$  from the entire source, are each less than 100 tons per year. Furthermore, the limited potential to emit of PM from the entire source (not including fugitive emissions) is less than one hundred (100) tons per year. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) are not applicable, and this source is still a minor source with respect to these rules.

#### 326 IAC 2-6 (Emission Reporting)

This source is subject to requirements of 326 IAC 2-6 (Emission Reporting) because this source is a portable source and the potential to emit VOC and  $NO_X$  from the entire source is greater than ten (10) tons per year. The annual statement must be received by April 15 of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8) (Emission Statement Operating Year).

#### 326 IAC 2-8-4 (FESOP)

Pursuant to this rule, the amount of  $PM_{10}$ , VOC and  $SO_2$  shall be limited to less than one hundred (100) tons per year. Therefore, the requirements of 326 IAC 2-7, do not apply.

(a) In order to limit the potential to emit SO<sub>2</sub> from the entire source to less than one hundred (100) tons per year, the applicant has elected to limit the No. 2 fuel oil throughput limit to the one (1) direct fired heater and the dryer/burner to less than 2,814,084.5 gallons per

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twelve (12) consecutive month period, equivalent to less than 99.9 tons of SO<sub>2</sub> per year.

For purposes of determining compliance based on SO<sub>2</sub> emissions, each 1,000 gallons of No. 4 used oil shall be equivalent to 853.5 gallons of No. 2 distillate fuel oil.

The equivalency has been calculated as follows:

(147.8S) lbs of SO<sub>2</sub>/kgal of No. 4 used oil / (142.0S) lbs of SO<sub>2</sub>/kgal of No. 2 fuel oil =

 $(147.8 \times 0.41)$  lbs of SO<sub>2</sub>/kgal of No. 4 used oil /  $(142.0 \times 0.50)$  lbs of SO<sub>2</sub>/kgal of No. 2 fuel oil =

60.6 lbs of SO<sub>2</sub>/kgal of No. 4 used oil / 71 lbs of SO<sub>2</sub>/kgal of No. 2 fuel oil =

0.8535 kgal of No. 2 fuel oil / 1 kgal of No. 4 used oil =

853.5 gallons of No. 2 fuel oil/ 1000 gallons of No. 4 used oil.

- (b) In order to limit the potential to emit PM<sub>10</sub> from the entire source to less than one hundred (100) tons per year, the applicant will limit the PM<sub>10</sub> emission rate from the aggregate dryer/mixer to less than 13.14 pounds per hour, equivalent to 57.55 tons of PM<sub>10</sub> per year.
- (c) In order to in order to limit the potential to emit VOC from the entire source to less than one (100) tons per year, the applicant will limit the liquid binder used in cold mix asphalt production as follows:
  - (1) Cutback asphalt rapid cure liquid binder usage will be limited to less than 103.05 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month equivalent to less than 97.9 tons of VOC per year.
  - (2) Cutback asphalt medium cure liquid binder usage will be limited to less than 139.86 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month equivalent to less than 97.9 tons of VOC per year.
  - (3) Cutback asphalt slow cure liquid binder usage will be limited to less than 211 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month, equivalent to less than 97.9 tons of VOC per year.
  - (4) Emulsified asphalt with solvent liquid binder usage will be limited to less than 102 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month, equivalent to less than 97.9 tons of VOC per year.
  - (5) Other asphalt with solvent liquid binder will be limited to less than 3,916 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month, equivalent to less than 97.9 tons of VOC per year.
  - (6) The VOC solvent allotments in paragraphs (c)(1) through (c)(2) will be adjusted when more than one type of binder is used per twelve (12) month consecutive period with compliance determined at the end of each month. In order to determine

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the tons of VOC emitted per each type of binder, use the following formula and divide the tons of VOC solvent used for each type of binder by the corresponding adjustment ratio listed in the table that follows.

<u>Tons of solvent contained in binder</u> = tons of VOC emitted Adjustment ratio

Type of binder	tons VOC solvent	adjustment ratio	tons VOC emitted
cutback asphalt rapid cure		1	
cutback asphalt medium cure		1.36	
cutback asphalt slow cure		3.8	
emulsified asphalt		2.04	
other asphalt		38	

Compliance with the above limits will render the requirements of 326 IAC 2-7 and 326 IAC 2-3 not applicable.

#### 326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period

#### 326 IAC 6-4 (Fugitive Dust Emissions Limitations)

This rule requires that the source not generate fugitive dust to the extent that some portion of the material escapes beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located.

#### 326 IAC 6-5 (Fugitive Particulate Emissions Limitations)

This rule requires a fugitive dust plan to be submitted since this portable source has a potential to emit fugitive particulate matter greater than twenty-five (25) tons per year. The plan was submitted, reviewed, and approved on July 5, 1995, and consists of one or more of the following treatments of unpaved roads and parking lots: paving with asphalt, or treating with emulsified asphalt and calcium chloride, or water on an as-needed basis. The source shall comply with all dust abatement

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measures contained therein.

#### 326 IAC 8-5-2 (Asphalt paving rules)

Pursuant to 326 IAC 8-5-1, the requirements of this rule are applicable to the source because the source was constructed after January 1, 1980. Pursuant to 326 IAC 8-5-2, the Permittee shall not allow the use of asphalt emulsion containing more than seven percent (7%) oil distillate by volume of emulsion, except as used for the following purposes:

- (a) penetrating prime coating;
- (b) stockpile storage mix; and
- (c) application during the months of November, December, January, February, and March.

#### State Rule Applicability - Individual Facilities

326 IAC 2-8-11.1(d) (Minor Permit Revision)

Pursuant to Condition D.1.2 of MPR 029-17649-03326, issued on July 2, 2003 and 326 IAC 2-8-11.1(d), the input of No. 4 used oil to the aggregate dryer burner will be limited to less than 825,000 gallons per twelve (12) consecutive month period with compliance determined at the end of each month equivalent to less than twenty-five (25) tons of  $SO_2$  and  $NO_X$  per year.

#### 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations)

Pursuant to 326 IAC 6-1-2(a) (Nonattainment Area Particulate Limitations), particulate matter (PM) emissions from the aggregate dryer/mixer shall be limited to 0.03 grains per dry standard cubic foot of exhaust air, equivalent to 5.12 pounds of PM per hour based on an exhaust rate of 31134 acfm and an exhaust temperature of 325 degrees Fahrenheit.

#### 326 IAC 6-3-2 (Process Operations)

Pursuant to 326 IAC 6-3-1(b)(2), if a limit is established by 326 IAC 12 concerning New Source Performance Standards, then the limitation contained in 326 IAC 6-3 shall not apply. Therefore, since the asphalt plant is subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.90, Subpart I) and the requirement of 326 IAC 6-1, the requirements of 326 IAC 6-3-2 are not applicable to the aggregate mixer/dryer.

#### 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations)

- (a) The one (1) dryer/burner, firing No. 2 distillate oil as backup fuel, rated at 82.7 million British thermal units per hour, is subject to the requirements of 326 IAC 7-1.1, since the potential to emit SO<sub>2</sub> is greater than twenty-five (25) tons per year. Pursuant to this rule, sulfur dioxide emissions from the combustion of No. 2 distillate fuel oil shall not exceed 0.5 pounds per million British thermal units.
- (b) The one (1) dryer/burner, firing No. 4 used oil for energy recovery as an alternative fuel, rated at 82.7 million British thermal units per hour, is subject to the requirements of 326 IAC 7-1.1, since the potential to emit SO<sub>2</sub> is greater than twenty-five (25) tons per year. Pursuant to this rule, used oil is considered residual waste oil because the AP-42 considers No. 4 used oil as waste and thus, sulfur dioxide emissions from the combustion of No. 4 used oil shall not exceed 1.6 pounds per million British thermal units heat input.

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The manufacturers specifications for each fuel show that this source is in compliance with the requirements of 326 IAC 7-1.1.

326 IAC 7-2-1 (Sulfur Dioxide Compliance: reporting and methods to determine compliance)

Reports of calendar month or annual average sulfur content, heat content, fuel consumption, and sulfur dioxide emission rate shall be provided upon request to the Office of Air Quality.

329 IAC 13 (Used Oil Management)

The No. 4 used oil burned in the dryer/burner is not subject to regulation under the requirements specified in 329 IAC 13 (Used Oil Management), because pursuant to 329 IAC 13-3-2 (Used Oil Specifications), the No. 4 used oil that is burned at this source for energy recovery does not exceed the following allowable levels for specific constituents or properties:

Constituent or Property	Allowable Level
Arsenic	5 ppm maximum
Cadmium	2 ppm maximum
Chromium	10 ppm maximum
Lead	100 ppm maximum
Flash Point	100EF minimum
Total Halogens	4,000 ppm maximum

#### **Testing Requirements**

All testing requirements from previous approvals were incorporated into this FESOP.

A stack test for PM and  $PM_{10}$  emissions to determine compliance with 40 CFR 60, Subpart I, 326 IAC 6-1-2, and 326 IAC 2-8-4 was performed August 18, 1999 This test showed that the drum mix asphalt plant was in compliance with its permit requirements for PM and  $PM_{10}$ .

PM and PM<sub>10</sub> testing is required for the drum mixer and dryer/burner Stack 2 prior to August 18, 2004 in order to assure compliance with NSPS Subpart I, 326 IAC 6-1-2, and 326 IAC 2-8-4.

#### **Compliance Requirements**

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitor-

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ing conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

All compliance requirements from previous approvals were incorporated into this FESOP. The compliance monitoring requirements applicable to this source are as follows:

The aggregate dryer/burner has applicable compliance monitoring conditions as specified below:

- (a) Visible emissions notations of conveyers, material transfer points and the baghouse shall be performed once per shift during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.
- (b) The Permittee shall record the total static pressure drop across the baghouse controlling the aggregate dryer/burner, at least once per shift when the aggregate dryer/burner is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan Preparation, Implementation, Records, and Reports.
- (c) The inlet temperature to the baghouse shall be maintained within a range of 200 400 degrees Fahrenheit (°F) to prevent overheating of the bags and to prevent low temperatures from mudding up the bags. The thermocouple at the inlet has a temperature switch which automatically shuts the burner off if the high end range is exceeded. In the event that bag failure has occurred due to rupture, melting, etc., corrective action shall be taken. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when the inlet temperature reading is outside of the above mentioned range for any one reading. The baghouse shall shutdown for visual inspection within 24 hours and bags shall be replaced as needed.
- (d) An inspection shall be performed each calender quarter of all bags controlling the drum mixer operation. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.
- (e) In the event that bag failure has been observed:
  - (1) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this proposed permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C Compliance Response Plan Preparation, Imple-

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mentation, Records, and Reports, shall be considered a violation of this permit.

(2) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this proposed permit (Section B - Emergency Provisions).

These monitoring conditions are necessary because the baghouse for the aggregate dryer/burner must operate properly to ensure compliance with 326 IAC 5-1 (Opacity), 326 IAC 2-8 (FESOP), NSPS Subpart I, 326 IAC 6-1-2 and to render the requirements of 326 IAC 2-2 not applicable.

#### Conclusion

The operation of this portable drum mix asphalt manufacturing source shall be subject to the conditions of the attached proposed FESOP Renewal No.: F 029-16874-03326.

#### **Appendix A: Emission Calculations**

Company Name: Dave O'Mara Contractor, Inc.

Current Plant Location: 10585 Morgan's Branch Road, Aurora, Indiana 47001

County: Portable (except Lake and Porter Counties)

FESOP: F 029-16874 Plt. ID: 029-03326 Date: March 3, 2003

Permit Reviewer: Michael S. Schaffer

#### I. Potential Emissions

A. Source emissions before controls

Direct Fired Heater on #2 Fuel Oil (oil/<100MMBTU/uncontrolled)

The following calcul fuel oil @			nissions created by #2 & #1 distillate 760 hours of use and AP-42, Tables 1.	3-1, 1.3-2, 1.3-3
	Pollutant:	2.500 MMBtu	ı/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
		<b>140000.0</b> Btu/ga	I * 2000 lbs/ton	
		PM:	2.0 lbs/1000 gal =	<b>0.156</b> tons/yr
		PM-10	3.3 lbs/1000 gal =	<b>0.258</b> tons/yr
		S O x:	71.0 lbs/1000 gal =	5.553 tons/yr
		NOx:	20.0 lbs/1000 gal =	1.564 tons/yr
		V O C:	0.34 lbs/1000 gal =	<b>0.027</b> tons/yr
		C O:	5.0 lbs/1000 gal =	<b>0.391</b> tons/yr

### Direct Fired Heater on Gas (gas/<100MMBTU/uncontrolled)

The following calculations determine the amount of emissions created by natural gas combustion, based on 8760 hours of use, AP-42 Ch. 1.4, Tables 1.4-1, 1.4-2, 1.4-3

Pollutant:	0.000 MMBtu/hr * 8760 hrs/yr			* Ef (lbs/MMcf) = (tons/yr)
	1000 Btu/c	f * 2000 lbs/to	n	
	PM:	1.9 lb	s/MMcf =	<b>0.000</b> tons/yr
	P M-10:	7.6 lb	s/MMcf =	<b>0.000</b> tons/yr
	S O x:	0.6 lb	s/MMcf =	<b>0.000</b> tons/yr
	NOx:	100.0 lb	s/MMcf =	<b>0.000</b> tons/yr
	V O C:	5.5 lb	s/MMcf =	<b>0.000</b> tons/yr
	C O:	84.0 lb	s/MMcf =	<b>0.000</b> tons/yr

Dry The following calculations determine natural gas combustion, based on 8760		•	•
Pollutant:	<b>82.7</b> MMB	tu/hr * 8760 hrs/yr	* Ef (lbs/MMcf) = (tons/yr)
	1000 Btu/c	f * 2000 lbs/ton	<u> </u>
	5.4	40 11 (144)	
	P M:	1.9 lbs/MMcf =	<b>0.6882</b> tons/yr
	P M-10:	7.6 lbs/MMcf =	2.753 tons/yr
	S O x:	0.6 lbs/MMcf =	<b>0.217</b> tons/yr
	NOx:	100.0 lbs/MMcf =	<b>36.2226</b> tons/yr
	V O C:	5.5 lbs/MMcf =	1.992 tons/yr
	C O:	84.0 lbs/MMcf =	<b>30.427</b> tons/yr
_			

Dryer Burner (gas/>100MMBTU/uncontrolled)

The following calculations determine the amount of emissions created by natural gas combustion, based on 8760 hours of use, AP-42 Ch. 1.4, Tables 1.4-1, 1.4-2, 1.4-3

Pollutant:	<b>0.000</b> MMBtu/hr * 8760 hrs/yr 1000 Btu/cf * 2000 lbs/ton		* Ef (lbs/MMcf) (tons/yr)
_			
	PM:	1.9 lbs/MMcf =	<b>0.000</b> tons/yr
	P M-10:	7.6 lbs/MMcf =	<b>0.000</b> tons/yr
	S O x:	0.6 lbs/MMcf =	<b>0.000</b> tons/yr
Post-NSPS = 190	NOx:	280.0 lbs/MMcf =	<b>0.00</b> tons/yr
Subpart I (June 11 1973 - Nysa Jarr	V O C:	5.5 lbs/MMcf =	<b>0.000</b> tons/yr
•	C O:	84.0 lbs/MMcf =	<b>0.000</b> tons/yr

#### Dryer Burner (gas/>100MMBTU/low nox)

The following calculations determine the amount of emissions created by natural gas combustion, based on 8760 hours of use, AP-42 Ch. 1.4, Tables 1.4-1, 1.4-2, 1.4-3 (low NOx burner = 140, flue gas recirculation = 100)

Pollutant:	0.000 MMBt	u/hr * 8760 hrs/yr	* Ef (lbs/MMcf) (tons/yr)
	1000 Btu/cf	* 2000 lbs/ton	
	PM:	1.9 lbs/MMcf =	<b>0.000</b> tons/yr
	P M-10:	7.6 lbs/MMcf =	<b>0.000</b> tons/yr
	SOx:	0.6 lbs/MMcf =	<b>0.000</b> tons/yr
	NOx:	140.0 lbs/MMcf =	<b>0.000</b> tons/yr
	V O C:	5.5 lbs/MMcf =	<b>0.000</b> tons/yr
	C O:	84.0 lb/MMcf =	<b>0.000</b> tons/yr

			(#2 & #1 oil)	Dryer Burner	<100
•			nissions created by #2 & #1 dis		
uel oil @	0.50	sulfur, based on 8	760 hours of use and AP-42, Ta	ables 1.3-1, 1.3-2, 1.3-3	
	Pollutant:	82.7 MMBt	u/hr * 8760 hrs/yr	* Ef (I	bs/1000 gal) = (tons/yr)
	_	<b>140000.0</b> Btu/ga	al * 2000 lbs/ton		
		PM:	2.0 lbs/1000 gal =		<b>5.175</b> tons/yr
		PM-10:	3.3 lbs/1000 gal =		8.538 tons/yr
		S O x:	71.0 lbs/1000 gal =		183.700 tons/yr
		NOx:	20.0 lbs/1000 gal =		<b>51.747</b> tons/yr
		V O C:	0.34 lbs/1000 gal =		<b>0.880</b> tons/yr
		C O:	5.0 lbs/1000 gal =		<b>12.937</b> tons/yr
			(#4 Used Oil/	<100MMBTU)	Dryer Burner
			sions created by #4 Used Oil as	s stated in MPR 029-17	649-03326, issued on
uel oil @	0.41 %	sulfur, based on 8	760 hours of use and AP-42, C	hapter 1.11 as well as r	nanufacturer's specification
	Pollutant:		u/hr * 8760 hrs/yr	* Ef (I	bs/1000 gal) = (tons/yr)
	_	<b>138000.0</b> Btu/ga	al * 2000 lbs/ton		
		P M:	2.8 lbs/1000 gal =		7.350 tons/yr
		PM-10:	2.8 lbs/1000 gal =		7.350 tons/yr
		SOx:	60.6 lbs/1000 gal =		159.064 tons/yr
		NOx:		<del></del>	28.873 tons/yr
			11 U IDS/1000 dal =		
			11.0 lbs/1000 gal =		
		V O C: C O:	11.0 lbs/1000 gal = 1.00 lbs/1000 gal = 1.7 lbs/1000 gal =		2.625 tons/yr 4.462 tons/yr
		V O C:	1.00 lbs/1000 gal = 1.7 lbs/1000 gal =	>100MMBTU)	2.625 tons/yr 4.462 tons/yr
•		V O C: C O: ne the amount of en	1.00 lbs/1000 gal = 1.7 lbs/1000 gal = (#4 Used Oil/ nissions created by #4 distillate		2.625 tons/yr 4.462 tons/yr  Dryer Burner
The following calculati		V O C: C O: ne the amount of en	1.00 lbs/1000 gal = 1.7 lbs/1000 gal = (#4 Used Oil/		2.625 tons/yr 4.462 tons/yr Dryer Burner
uel oil @		V O C: C O: ne the amount of en sulfur, based on 8	1.00 lbs/1000 gal = 1.7 lbs/1000 gal = 1.7 lbs/1000 gal = (#4 Used Oil/missions created by #4 distillate 760 hours of use and AP-42, Tau/hr * 8760 hrs/yr	ables 1.3-1, 1.3-2, 1.3-3	2.625 tons/yr 4.462 tons/yr Dryer Burner
uel oil @	0.41 %	V O C: C O: ne the amount of en	1.00 lbs/1000 gal = 1.7 lbs/1000 gal = 1.7 lbs/1000 gal = (#4 Used Oil/missions created by #4 distillate 760 hours of use and AP-42, Tau/hr * 8760 hrs/yr	ables 1.3-1, 1.3-2, 1.3-3	2.625 tons/yr 4.462 tons/yr  Dryer Burner
uel oil @	0.41 %	V O C: C O: ne the amount of en sulfur, based on 8	1.00 lbs/1000 gal = 1.7 lbs/1000 gal = 1.7 lbs/1000 gal = (#4 Used Oil/missions created by #4 distillate 760 hours of use and AP-42, Tau/hr * 8760 hrs/yr	ables 1.3-1, 1.3-2, 1.3-3	2.625 tons/yr 4.462 tons/yr  Dryer Burner
uel oil @	0.41 %	v o c: c o: ne the amount of en sulfur, based on 8: 0.0 MMBtr 138000.0 Btu/ga	1.00 lbs/1000 gal = 1.7 lbs/1000 gal = (#4 Used Oil/ missions created by #4 distillate 760 hours of use and AP-42, To u/hr * 8760 hrs/yr al * 2000 lbs/ton	ables 1.3-1, 1.3-2, 1.3-3	2.625 tons/yr 4.462 tons/yr  Dryer Burner  bs/1000 gal) = (tons/yr)
uel oil @	0.41 %	V O C: C O: ne the amount of en sulfur, based on 8: 0.0 MMBtt 138000.0 Btu/ga	1.00 lbs/1000 gal = 1.7 lbs/1000 gal = (#4 Used Oil/ missions created by #4 distillate 760 hours of use and AP-42, Ti u/hr * 8760 hrs/yr al * 2000 lbs/ton 2.0 lbs/1000 gal =	ables 1.3-1, 1.3-2, 1.3-3	2.625 tons/yr 4.462 tons/yr  Dryer Burner  bs/1000 gal) = (tons/yr)  0.000 tons/yr
uel oil @	0.41 %	V O C: C O: ne the amount of en sulfur, based on 8: 0.0 MMBtr 138000.0 Btu/ga P M: PM-10:	1.00 lbs/1000 gal = 1.7 lbs/1000 gal = 1.7 lbs/1000 gal =  (#4 Used Oil/ missions created by #4 distillate 760 hours of use and AP-42, Ti  u/hr * 8760 hrs/yr al * 2000 lbs/ton  2.0 lbs/1000 gal = 3.3 lbs/1000 gal =	ables 1.3-1, 1.3-2, 1.3-3	2.625 tons/yr 4.462 tons/yr  Dryer Burner  bs/1000 gal) = (tons/yr)  0.000 tons/yr  0.000 tons/yr
uel oil @	0.41 %	V O C: C O: ne the amount of en sulfur, based on 8: 0.0 MMBtr 138000.0 Btu/ga P M: PM-10: S O x:	1.00 lbs/1000 gal = 1.7 lbs/1000 gal = 1.7 lbs/1000 gal =  (#4 Used Oil/ missions created by #4 distillate 760 hours of use and AP-42, Ti u/hr * 8760 hrs/yr al * 2000 lbs/ton  2.0 lbs/1000 gal = 3.3 lbs/1000 gal = 61.5 lbs/1000 gal =	ables 1.3-1, 1.3-2, 1.3-3	2.625 tons/yr 4.462 tons/yr  Dryer Burner  bs/1000 gal) = (tons/yr)  0.000 tons/yr 0.000 tons/yr 0.000 tons/yr

#### (waste oil/ vaporizing burner)

			(waste on vaporizing bu	111161 <i>)</i>	
The following cald	culations determin	e the amount of en	nissions created by waste	0.000	% Ash
fuel oil @	0.500 %	sulfur, based on 87	760 hours of use and AP-42, Chapter 1.11	0.000	% Lead
	Pollutant: 0.0 MMBtu/hr * 8760 hrs/yr		u/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)	
		<b>0.0</b> Btu/ga	l * 2000 lbs/ton		
		PM:	0.0 lbs/1000 gal =	<b>0.000</b> tons/yr	
		P M-10:	0.0 lbs/1000 gal =	<b>0.000</b> tons/yr	
		S O x:	50.0 lbs/1000 gal =	<b>0.000</b> tons/yr	
		NOx:	11.0 lbs/1000 gal =	<b>0.000</b> tons/yr	
		VOC	1.0 lbs/1000 gal =	<b>0.000</b> tons/yr	
		C O:	1.7 lbs/1000 gal =	<b>0.000</b> tons/yr	
		Pb:	0.0 lbs/1000 gal =	<b>0.000</b> tons/yr	
The following cald fuel oil @			(waste oil/atomizing bur hissions created by waste 760 hours of use andAP-42 Chapter 1.11	(ner) 0.000 0.000	% Ash % Lead
ider on @	3.044 //	sullui, baseu oli o	700 flours of use andAr-42 Chapter 1.11		/₀ Leau
	Pollutant:	0.000 MMBt	u/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)	
		<b>0.000</b> Btu/ga	Il * 2000 lbs/ton		
		PM:	0.0 lbs/1000 gal =	<b>0.000</b> tons/yr	
		P M-10:	0.0 lbs/1000 gal =	<b>0.000</b> tons/yr	
		S O x:	389.9 lbs/1000 gal =	<b>0.000</b> tons/yr	
		NOx:	16.0 lbs/1000 gal =	<b>0.000</b> tons/yr	
		VOC	1.0 lbs/1000 gal =	<b>0.000</b> tons/yr	
		C O:	2.10 lbs/1000 gal =	<b>0.000</b> tons/yr	
		Pb:	0.00 lbs/1000 gal =	<b>0.000</b> tons/yr	

#### \* \* aggregate drying: drum-mix plant \* \*

The following calculations determine the amount of emissions created by aggregate drying, based on 8760 hours of use and AP-42, Chapter 11.1, Table 11.1-3, rev. 12/00

PM:	28 lbs/ton x	247.0	tons/hr x	8760 hrs/yr =	<b>30292.080</b> tons/yr
		2000	lbs/ton		
P M-10:	6.5 lbs/ton x	247	tons/hr x	8760 hrs/yr =	7032.090 tons/yr
		2000	lbs/ton		
Lead:	3.3000000E-06 lbs/ton x	247	tons/hr x	8760 hrs/yr =	<b>0.004</b> tons/yr
		2000	lbs/ton		
HAPs:	0.0076 lbs/ton x	247	tons/hr x	8760 hrs/yr =	8.222 tons/yr
		2000	lbs/ton		

HAPs include benzene, ethylbenzene, formaldehyde, methyl chloroform, naphthalene, toluene, xylene; arsenic, cadmium, chromium, manganese, mercury, and nickel compounds.

#### \*\* aggregate drying: batch-mix plant \*\*

The following calculations determine the amount of emissions created by aggregate drying, based on 8760 hours of use and EPA SCC #3-05-002-05:

PM:	32 lbs/ton x	0.0	tons/hr x	8760 hrs/yr =	0.0 tons/yr
		2000	lbs/ton		
P M-10:	4.5 lbs/ton x	0	tons/hr x	8760 hrs/yr =	0.0 tons/yr
		2000	lbs/ton		
Lead:	3.30000000E-06 lbs/ton x	0	tons/hr x	8760 hrs/yr =	<b>0.000</b> tons/yr
		2000	lbs/ton		
HAPs:	0.0076 lbs/ton x	0	tons/hr x	8760 hrs/yr =	<b>0.000</b> tons/yr
		2000	lbs/ton		

HAPs include benzene, ethylbenzene, formaldehyde, methyl chloroform, naphthalene, toluene, xylene; arsenic, cadmium, chromium, manganese, mercury, and nickel compounds.

#### \*\* conveying / handling \*\*

The following calculations determine the amount of emissions created by material handling of aggregate, based on 8760 hours of use and AP-42, Ch 11.19.2

PM: 0.003 lbs/ton x 246.89 tons/hr x 8760 hrs/yr =2.994 tons/yr 2000 lbs/ton P M-10: 10% of PM = 0.299 tons/yr 0.0315 lbs/ton AP-42 Ch.11.19.2 Screening PM: 246.89 tons/hr x / 2000 lbs/ton x 8760 hrs/yr = 34.063 tons/yr P M-10: 10% of PM = 3.406 tons/yr

Note that 0.111 tons of liquid asphalt per hour is the maximum amount of liquid asphalt that can be used which is equivalent to 0.045% of the capacity of asphalt production for the entire source. This value was subtracted from 247 tons of asphalt per hour which was used to calculate the potential to emit PM and PM10 from conveying/handling and screening.

#### \* \* unpaved roads \* \*

The following calculations determine the amount of emissions created by vehicle traffic on unpaved roads, based on 8760 hours of use and AP-42, Ch 11.2.1.

#### A. Misc Trucks (Dump Trucks)

A. MISC ITUC	no (Dunip Hucho)				
10.0	trips/hr x				
0.22	miles/roundtrip x				
8760	hrs/yr =		19272.0 miles per year		
For PM	•	For PM-10			
	Ef =	{k*[(s/12)^0.8]	*[(W/3)^b]/[(Mdry/0.2)^c]}*[(365-p)/365]		
8.75	=	1.86	lb/mile		
10	where k =	2.6	(particle size multiplier for PM-10) (k=	10 for PM-30 or T	SP)
4.8	s =	4.8	mean % silt content of unpaved roads		,
0.5	b =	0.4	Constant for PM-10 (b = 0.5 for PM-30	or TSP)	
0.4	c =	0.3	Constant for PM-10 (c = 0.4 for PM-30	or TSP)	
23	W =	23	tons average vehicle weight		
0.2	Mdry =	0.2	surface material moisture content, %	default is 0.2 for	dry conditions)
125	p =	125	number of days with at least 0.254mm	of precipitation (	See Figure 13.2.2-1)
	8.75	lb/mi x	19272 mi/yr =	PM	84.29 tons/yr
		2000	lb/ton	_	
	1.86	lb/mi x	19272 mi/yr =	PM-10	17.88 tons/yr
	1.00		lb/ton	_ ' '''' -	17.00 (OH3/y)
		2000	10/1011		

B. Front End Load					
37.5 trips					
	es/roundtrip x		50420 0 miles menuser		
8760 hrs/	yr = For P		<b>59130.0</b> miles per year		
For PM			/N/dm./O.O\A=1\*[/OCE_m\/O	CE1	
0.05	ET = {K*[(S/	2.01 lb/mile	(Mdry/0.2)^c]}*[(365-p)/3	00]	
9.65				1. 40 f DM 00 T0	ND)
10	where k =		ze multiplier for PM-10) (		SP)
4.8	s =		It content of unpaved roa		
0.5	b =		or PM-10 (b = 0.5 for PM		
0.4	C =		or PM-10 (c = 0.4 for PM	-30 or TSP)	
28	W =		ge vehicle weight	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
0.2	Mdry =		aterial moisture content,		
125	p =		days with at least 0.254r		
	9.65 lb/mi		59130 mi/yr =	PM	<b>285.34</b> tons/yr
		2000 lb/ton			
	2.01 lb/mi	x	59130 mi/yr =	PM-10	<b>59.34</b> tons/yr
		2000 lb/ton	-		
Semi Truck					
<b>0.0</b> trips	s/hr x				
<b>0.0</b> mile	s/roundtrip x				
8760 hrs/			0.0 miles per year		
For PM	For P	M-10			
	$Ef = \{k^*[(s/s)]\}$	12)^0.8]*[(W/3)^b]/[	(Mdry/0.2)^c]}*[(365-p)/3	65]	
11.24	= ` ``	2.27 lb/mile	, , , , , , , , , , , , , , , , , , , ,	•	
10	where k =	2.6 (particle si	ze multiplier for PM-10) (	k=10 for PM-30 or TS	SP)
4.8	s =	**	It content of unpaved roa		,
0.5	b =		or PM-10 (b = 0.5 for PM		
0.4	c =		or PM-10 (c = 0.4 for PM		
38	W =		ge vehicle weight		
0.2	Mdry =		aterial moisture content,	% (default is 0.2 for d	ry conditions)
125	p =		days with at least 0.254r		
0	11.24 lb/mi		0 mi/yr =	PM	<b>0.00</b> tons/yr
	11.21 10/11117	2000 lb/ton	0 mm yr		tonory
	2.27 lb/mi	v.	0 mi/yr =	PM-10	<b>0.00</b> tons/yr
	2.21 10/11117	2000 lb/ton	O IIII/yI —		<u> </u>
II Trucking	Total PM:	369.63 tons/yr			
ii i i uckiiig	Total PM-10:	77.21 tons/yr			
	10tal F W-10	II.ZI (UIIS/YI			

The following calculations determine the amount of emissions created by wind erosion of storage stockpiles, based on 8760 hours of use and AP-42, Ch 11.2.3.

Ff =	1 7*(s/1 5)*(36	65-p)/235*(f/15)	
=		lbs/acre/day for sand	
=		lbs/acre/day for stone	
=		lbs/acre/day for slag	
=		lbs/acre/day for gravel	
=		lbs/acre/day for RAP	
where s =		% silt for sand	
s =	1.0	% silt of stone	
s =	1.0	% silt of slag	
s =	1.0	% silt of gravel	
s =	1.0	% silt for RAP	
p =	125	days of rain greater than or equal to 0	.01 inches
f =	15	% of wind greater than or equal to 12	mph
Ep (storage) =	Ef * sc * (20 ci	uft/ton) * (365 days/yr)	_
	(2000 lbs/ton)	*(43560 sqft/acre)*(25 ft)	_
=	0.070	tons/yr for sand	
=		tons/yr for stone	
=		tons/yr for slag	
=		tons/yr for gravel	
=		tons/yr for RAP	_
Total PM:	0.163	tons/yr	
where sc =		,000 tons storage capacity for sand	
sc =		,000 tons storage capacity for stone	
sc =		,000 tons storage capacity for slag	
sc =		,000 tons storage capacity for gravel	
sc =	0	,000 tons storage capacity for RAP	
P M-10:	250/	of DM -	0.004 tonot in for cond
P IVI-10:		of PM =	0.024 tons/yr for sand
		of PM =	0.033 tons/yr for stone
		of PM =	0.000 tons/yr for slag
		of PM =	0.000 tons/yr for gravel
Total DM 40:	35%	of PM =	0.000 tons/yr for RAP
Total PM-10:			

#### Emissions before controls (combustion plus production) are as follows:

natural gas		#2 oil		#4 Used oil		waste oil	
P M	: <b>30700</b> tons/yr	P M:	<b>30704</b> tons/yr	P M:	<b>30706</b> tons/yr	P M:	<b>0.000</b> tons/yr
P M-10	: 7116 tons/yr	P M-10:	<b>7122</b> tons/yr	P M-10:	<b>7120</b> tons/yr	P M-10:	<b>0.000</b> tons/yr
SOx	. 0.217 tons/yr	S O x:	189 tons/yr	S O x:	159 tons/yr	S O x:	<b>0.000</b> tons/yr
N O x	: 36.2 tons/yr	NOx:	53.3 tons/yr	NOx:	28.9 tons/yr	NOx:	<b>0.000</b> tons/yr
VOC	: 1.992 tons/yr	V O C:	<b>0.906</b> tons/yr	V O C:	2.62 tons/yr	V O C:	<b>0.000</b> tons/yr
CO	: 30.4 tons/yr	C O:	13.3 tons/yr	C O:	<b>4.46</b> tons/yr	C 0:	<b>0.000</b> tons/yr
Lead	. 0.004 tons/yr	Lead:	<b>0.004</b> tons/yr	Lead:	<b>0.004</b> tons/yr	Lead:	0.004 tons/yr
HAPs	8.22 tons/yr	HAPs:	8.22 tons/yr	HAPs:	8.22 tons/yr	HAPs:	<b>0.000</b> tons/yr

#### B. Source emissions after controls

dry	er combustion: gas			
PM:	0.69 tons/yr x	0.00090	emitted after controls =	<b>0.001</b> tons/yr
P M-10:	2.75 tons/yr x	0.00090	emitted after controls =	<b>0.002</b> tons/yr
	er combustion: #2 oil			
PM:	5.17 tons/yr x		_emitted after controls =	0.005_tons/yr
P M-10:	8.54 tons/yr x	0.00090	emitted after controls =	<b>0.008</b> tons/yr
Fue	el oil heater combustion: ga	as	-	<del></del>
PM:	0.000 tons/yr x	1.00000	emitted after controls =	<b>0.000</b> tons/yr
P M-10:	0.000 tons/yr x	1.00000	emitted after controls =	<b>0.000</b> tons/yr
Fue	el oil heater combustion: #2	2 oil		
PM:	0.156 tons/yr x	1.00000	emitted after controls =	<b>0.156</b> tons/yr
P M-10:	0.258 tons/yr x	1.00000	emitted after controls =	<b>0.258</b> tons/yr
	_		-	-
	er combustion: #4 used oil			
PM:	7.35 tons/yr x		emitted after controls =	<b>0.007</b> _tons/yr
P M-10:	7.35 tons/yr x 7.35 tons/yr x	0.00090	emitted after controls =	tons/yr
dry	er combustion: waste oil			
PM:	0.00 tons/yr x		emitted after controls =	
P M-10:	0.00 tons/yr x	0.000	emitted after controls =	tons/yr
	gregate drying:			
PM:	30292.08 tons/yr x		emitted after controls =	<b>27.263</b> tons/yr
P M-10:	7032.09 tons/yr x	0.00090	emitted after controls =	<b>6.329</b> tons/yr
COI	nveying/handling:			
PM:	2.99 tons/yr x	1.000	emitted after controls =	<b>2.994</b> _tons/yr
P M-10:	0.30 tons/yr x	1.000	_emitted after controls =	tons/yr
scr	eening			
PM:	34.06 tons/yr x	1.000	emitted after controls =	<b>34.063</b> tons/yr
P M-10:	3.41 tons/yr x	1.000	emitted after controls =	3.406 tons/yr
un	paved roads:			
PM:	369.63 tons/yr x	50.00%	emitted after controls =	<b>184.814</b> _tons/yr
P M-10:	77.21 tons/yr x	50.00%	emitted after controls =	38.607 tons/yr
sto	rage:			
PM:	0.163 tons/yr x	50.00%	emitted after controls =	<b>0.081</b> _tons/yr
P M-10:	0.057 tons/yr x	50.00%	emitted after controls =	<b>0.029</b> tons/yr

#### Emissions after controls (combustion plus production) are as follows:

		Gas	#2 Oil	#4 Used Oil	Waste Oil	
Ī	P M:	249.2	249.4	249.2	0.000	tons/yr
Ī	P M-10:	48.7	48.9	48.677	0.000	tons/yr

#### II. Allowable Emissions

A. The following calculations determine compliance with NSPS Subpart I, which limits stack emissions from asphalt plants to 0.04 gr/dscf:

0.04 grains * 3	1134.000 acfm *	5	28 *	100	- 5 % moisture
dscf		460 +	<b>325</b> Temp		100
525600 minutes *	1 *		1 ton	_ =	<b>29.875</b> tons/yr
year	7000 grains		2000 lbs	=	
To meet NSPS Subpart I, the following value	e must be < amount calculated above			27.4	tons/yr

B. The following calculations determine the maximum sulfur content of distillate #2 fuel oil allowable by 326 IAC 7:

limit: (	0.5 lbs/MMBtu				
(	0.5 lbs/MMBtu x	140000.0	_Btu/gal=	<b>70.0</b> lbs/1000ga	al
	70 lbs/1000gal /	142.0	_lb/1000 gal =		0.493
Sulfur content must be less the and to limit SO2 emissions to 9	•	0.493	% to comply with 3	26 IAC 7	

C. The following calculations determine the maximum sulfur content of #4 Used Oil. #4 Used Oil will be considered waste oil for evaluating fuel oil allowable by 326-IAC 7:

limit:	1.6 lbs/MMBtu		
	1.6 lbs/MMBtu x	<b>138000</b> Btu/gal=	220.8 lbs/1000gal
	220.8 lbs/1000gal /	60.6   lbs/1000 gal = (check burner type)	3.644
	e less than or equal to ons to 99 tons per year or less.	3.644 % to comply with 32	26 IAC 7

D. The following calculations determine the maximum sulfur content of distillate #4 fuel oil allowable by 326-IAC 7:

limit:	0.5 lbs/MMBtu		
	0.5 lbs/MMBtu x	<b>139000.000</b> Btu/gal=	69.5 lbs/1000gal
	69.5 lbs/1000gal /	<b>0.0</b> lbs/1000 gal =	0.000
	t be less than or equal to ssions to 99 tons per year or less.	% to comply with 32	6 IAC 7

#### **III. Limited Potential Emissions**

#### FUEL USAGE LIMITATION: BASED ON NOX

#### FUEL USAGE LIMITATION FOR DIRECT FIRED HEATER ALONE (OIL)

	tons NOx year	*	2000 lbs ton	=	3128.57	lbs NOx year	
3128.5714285714	lbs NOx year	I	20 lbs NOx kgal	=	156.43	kgal year	
156.43	kgal year	* 1.564285	99.00 <u>tons/year</u> 71429 <u>tons/year</u>	=	0.0	gal fuel year	
FUEL USAGE LIMIT	ATION FOR BURNER	& HEATER (Gas)					
	tons NOx year	*	2000 lbs ton	=	72445	lbs NOx year	
	lbs NOx year	1	100.0 lbs NOx MMcf	=	724.45	MMcf year	•
724.45	MMcf year	*	<b>99.0</b> tons/yr 36.22 tons/yr	=	0.0	MMcf year	FESOP Limit
FUEL USAGE LIMIT	ATION FOR BURNER	& HEATER (#2 Oil)					
	tons NOx year	*	2000 lbs ton	= '	106621.71	lbs NOx year	
106621.71	lbs NOx year	1	20 <u>lbs</u> 1000 gal	=	5331.09	kgal year	
5331.09	kgal year	*	99.0 tons/yr 53.31 tons/yr	=	0.0	kgal year	FESOP Limit
FUEL USAGE LIMIT	ATION FOR BURNER	(#4 Used Oil)					
	tons NOx year	*	2000 lbs ton	=	57746.17	lbs NOx year	
57746.17	lbs NOx year	1	11.0 lbs 1000 gal	=	5249.65	kgal year	
5249.65	kgal year	*	99.0 tons/yr 28.87 tons/yr	=	0.0	kgal year	FESOP Limit

#### FUEL USAGE LIMITATION FOR BURNER (Waste Oil)

0.00	tons NOx year	*	2000 lbs ton	=		bs NOx /ear	,
	lbs NOx year	1	<b>0.0</b> lbs 1000 gal	=	0.00	kgal vear	·
0.00	kgal year	*	99.0 tons/yr 0.00 tons/yr	=	0.0	kgal vear	FESOP Limit
FUEL USAGE LIMITATION: BASE	D ON SO2						
FUEL USAGE LIMIT	ATION FOR DIRECT	FIRED OIL HEATER	ON OIL				
5.55	tons SO2 year	*	2000 <u>lbs</u> ton	=	11106.428571 <u>I</u>	bs SO2 /ear	i
11106.428571429	lbs SO2 year	I	<b>71.0</b> <u>lbs SO2</u> kgal	=	156.43 <u>I</u>	kgal vear	,
156.42857142857	kgal year	* 5.553	99.00 tons/year 21428571 tons/year	=		gal fuel /ear	i
FUEL USAGE LIMIT	ATION FOR BURNER	R AND DIRECT FIRE	O OIL HEATER (Gas)				
	TATION FOR BURNER tons SO2 year	R AND DIRECT FIRE	2000 lbs ton	=	434.67 <u>I</u>	bs SO2 /ear	
0.217	tons SO2	R AND DIRECT FIREI  * /	2000 <u>lbs</u>	=	724.45 <b>!</b>	/ear	
0.217	tons SO2 year lbs SO2 year	* / *  *	2000 lbs ton  0.6 lbs SO2		724.45 <u>1</u> 0.0 <u>1</u>	vear MMcf vear	FESOP Limit
0.217 434.67 724.45	tons SO2 year  lbs SO2 year  MMcf	* /	2000 lbs ton  0.6 lbs SO2 MMcf  99.0 tons/yr 0.22 tons/yr	=	724.45 <u>1</u> 0.0 <u>1</u>	vear MMcf vear MMcf	FESOP Limit
0.217 434.67 724.45 FUEL USAGE LIMIT	tons SO2 year  lbs SO2 year  MMcf year	* /	2000 lbs ton  0.6 lbs SO2 MMcf  99.0 tons/yr 0.22 tons/yr	=	724.45 <u>[</u> 9.0 <u>[</u> 9.378507.09 <u>[</u>	vear  MMcf vear  MMcf vear	FESOP Limit
0.217 434.67 724.45 FUEL USAGE LIMIT	tons SO2 year  lbs SO2 year  MMcf year  ATION FOR BURNEF tons SO2 year	* /	2000 lbs ton  0.6 lbs SO2 MMcf  99.0 tons/yr 0.22 tons/yr	=	724.45 <u> </u> 0.0 <u> </u> 378507.09 <u> </u> 5331085.7143 <u> </u>	MMcf vear MMcf vear bs SO2 vear	FESOP Limit

#### FUEL USAGE LIMITATION FOR BURNER (#4 Used Oil)

Based on MPR 029-17649-03326, issued on

159.1 tons SO2 year	*	2000 lbs ton	<b>.</b> =	318128.92174 <u>lbs SO2</u> year	_
318128.92 <u>lbs SO2</u> year	1	60.6 lbs 1000 gal	=	5249652.1739 gal year	_
5249652.17 <u>gal</u> year	*	25.0 tons/yr 159.06 tons/yr	= Less Than	<b>825000.0</b> gal year	Minor FESOP Revision Limit
FUEL USAGE LIMITATION FOR BU	JRNER (Waste Oil)				
0.0 tons SO2 year	*	2000 lbs ton	=	0.00 lbs SO2 year	_
0.00 lbs SO2 year	1	<b>0.0</b> lbs 1000 gal	. =	0.00 gal year	_
0.00 <u>gal</u> year	*	99.0 tons/yr 0.00 tons/yr	=	<b>0.0</b> gal year	FESOP Limit